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JP11043461A ☒ 19990216 FullText

Title: (ENG) PROSTAGLANDIN A1 ANALOGUE

Abstract: (ENG)

PROBLEM TO BE SOLVED: To obtain the subject new compound having osteogenesis promoting activity.

SOLUTION: This new compound is shown by formula I [R1 is a halogen, etc.; R2 is a group of the formula (CH₂)_qY₂R₅ (Y₂ is O, etc.; R₅ is H, etc.; (r) is 0 or 1; (q) is 0-5); X is H, etc.; Z is ethylene, etc.], e.g. 6,7-diol-5,8-inter- o-phenylene-PGA 1. The compound of formula I is obtained by the following process: furan is lithiated and then reacted with a compound of formula II (R₆ is a halogen, etc.), to form a compound, which is then rearranged, isomerized in the presence of an acid or base catalyst, and subjected to OH group protecting to form a compound of formula III (R₇ is an OH-protecting group), which, in turn, is reacted with an organic borane compound corresponding to R₁ in the presence of a base and a Pd catalyst to form a compound, which is then reacted with a compound prepared by reaction of an organolithium reagent with e.g. copper iodide, and the hydroxyl group of the resulting compound of formula IV (X₂ is H, etc.), is deprotected, followed by conducting a dehydration.

Application Number: JP 20184397 A

Application (Filing) Date: 19970728

Priority Data: JP 20184397 19970728 A X;

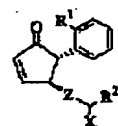
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IPC (International Class): C07C049753; A61K031557; C07C05986; C07C05990; C07C06538; C07C06540; C07C069738; C07C32322; C07C32352; C07C40500

Other Abstracts for Family Members: CHEMABS130(18)232507B; DERABS C1999-217720

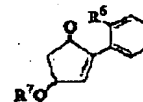
Other Abstracts for This Document: CHEMABS130(18)232507B; DERABS C1999-217720



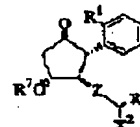
I



II



III



IV



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